

## INDEX TO VOLUME 66

## AUTHORS

- Alcorn, Doris J., Lyman E. Fancher, and Jane Gull Moss: Harbor Seal and Fish Populations—Before and After a Sewage Spill in South San Francisco Bay, 238–240
- Allen, George H.: see Gotshall, Allen, and Barnhart, 220–232
- Ames, Jack A. and G. Victor Morejohn: Evidence of White Shark, *Carcharodon carcharias*, Attacks on Sea Otters, *Enhydra lutris*, 196–209
- Anderson, Shane: see Fusaro and Anderson, 121–123
- Balling, Steven S., Tracy Stoehr, and Vincent H. Resh: The Effects of Mosquito Control Recirculation Ditches on the Fish Community of a San Francisco Bay Salt Marsh, 25–34
- Barnhart, Roger A.: see Gotshall, Allen, and Barnhart, 220–232
- Busack, Craig A., and G.A.E. Gall: Ancestry of Artificially Propagated California Rainbow Trout Strains, 17–24
- Busack, Craig A., and Gary H. Thorgaard: Karyotype of the Sacramento Perch, *Archoplites interruptus*, 189–191
- Chesemore, David L.: see Connelly and Chesemore, 233–237
- Connelly, Daniel P., and David L. Chesemore: Food Habits of Pintails, *Anas acuta*, Wintering on Seasonally Flooded Wetlands in the Northern San Joaquin Valley, California, 233–237
- Dentler, John L., and Gary D. Grossman: A Geographic Record for the Redtail Surfperch, *Amphistichus rhodotus*, 242
- Ellison, John Paul: Diets of Mountain Whitefish, *Prosopium williamsoni* (Girard), and Brook Trout, *Salvelinus fontinalis* (Mitchill), in the Little Walker River, Mono County, California, 96–104
- Eng, Larry L.: see Roth and Eng, 4–16
- Erman, Don C.: See Taylor and Erman, 112–119
- Fancher, Lyman E.: see Alcorn, Fancher, and Moss, 238–240
- Finlayson, B. J., and K. M. Verrue: Estimated Safe Copper and Zinc Levels for Chinook Salmon, *Oncorhynchus tshawytscha* in the Upper Sacramento River, California, 68–82
- Fitch, John E.: The Bigscale Goatfish, *Pseudupeneus grandisquamis* (Gill, 1863), Added to California's Marine Fauna, 123–124
- Fusaro, Craig, and Shane Anderson: First California Record: The Scalloped Hammerhead Shark, *Sphyrna lewini*, in Coastal Santa Barbara Waters, 121–123
- Gall, G.A.E.: see Busack and Gall, 17–24
- Gotshall, Daniel W., George H. Allen, and Roger A. Barnhart: An Annotated Checklist of Fishes from Humboldt Bay, California, 220–232
- Graber, Patsy, and Larry W. Hulberg: see Hulberg and Graber, 172–177
- Grossman, Gary D.: see Dentler and Grossman, 242
- Henry, Francis D.: The Introduction of Southwestern Bluegill, *Lepomis macrochirus purpureus*, into Lake Perris, California, With Notes on the Growth of the Initial Year Class, 62–64
- Houk, James L.: A Diver-Operated Snagging Device for Capturing Lingcod, *Ophiodon elongatus*, 187–188
- Hulberg, Larry W., and Patsy Graber: Diet and Behavioral Aspects of the Wolf Eel, *Anarrhichthys ocellatus*, on Sandy Bottom in Monterey Bay, California, 172–177
- Kohlhorst, David W.: Recent Trends in the White Sturgeon Population in California's Sacramento-San Joaquin Estuary, 210–219
- Kohlhorst, David W., Lee W. Miller, and James J. Orsi: Age and Growth of White Sturgeon Collected in the Sacramento-San Joaquin Estuary, California: 1965–1970 and 1973–1976, 83–95
- Lambert, Thomas R.: Status of the Redeye Bass, *Micropterus coosae*, in the South Fork Stanislaus River, California, 240–242
- Lesh, E. W.: A Head-off Method of Measuring Chinook and Coho Salmon, 59–62
- McCoid, Michael J., and James A. St. Amant: Notes on the Establishment of the Rainwater Killifish, *Lucania parva*, in California, 124–125
- Michael, John H., Jr.: Repeat Spawning of a Pacific Lamprey, 186–187
- Miller, Lee W.: see Kohlhorst, Miller, and Orsi, 83–95
- Morejohn, G. Victor: see Ames and Morejohn, 196–209
- Moss, Jane Gull: see Alcorn, Fancher, and Moss, 238–240
- Orsi, James J.: see Kohlhorst, Miller, and Orsi, 83–95
- Pelzman, Ronald J.: Impact of Florida Largemouth Bass, *Micropterus salmoides floridanus*, Introductions at Selected Northern California Waters, With a Discussion of the Use of Meristics for Detecting Introgression and for Classifying Individual Fish of Intergraded Populations, 133–162

- Pelzman, Ronald J., Stephen A. Rapp, and Robert R. Rawstron: Mortality and Survival of Tagged Smallmouth Bass, *Micropterus dolomieu*, at Merle Collins Reservoir, California, 35-39
- Rapp, Stephen A.: see Pelzman, Rapp, and Rawstron, 35-39
- Rawstron, Robert R.: see Pelzman, Rapp, and Rawstron, 35-39
- Resh, Vincent H.: see Balling, Stoehr, and Resh, 25-34
- Roth, Barry, and Larry L. Eng: Distribution, Ecology and Reproductive Anatomy of a Rare Land Snail, *Monadenia setosa* Talmadge, 4-16
- Salwasser, Hall, Douglas J. Thayer, and D. Lewis Young: The Use of Roadkilled Deer for Assessing Reproduction Potential and Winter Condition of the Devil's Garden Interstate Mule Deer Herd, 105-111
- St. Amant, James A.: see McCoid and St. Amant, 124-125
- Stoehr, Tracy: see Balling, Stoehr, and Resh, 25-34
- Talent, Carline L.: see Talent and Talent, 184-186
- Talent, Larry G., and Carline L. Talent: A Population of the Endangered Santa Cruz Long-Toed Salamander, *Ambystoma macrodactylum croceum*, from Monterey County, California, 184-186
- Taylor, Thomas L.: A Blue Catfish from the Sacramento-San Joaquin Delta, 120-121
- Taylor, Timothy P., and Don C. Erman: The Littoral Bottom Fauna of High Elevation Lakes in Kings Canyon National Park, 112-119
- Thayer, Douglas J.: see Salwasser, Thayer, and Young, 105-111
- Thorgaard, Gary H.: see Busack and Thorgaard, 189-191
- Vanicek, C. David: Decline of the Lake Greenhaven Sacramento Perch Population, 178-183
- Van Woert, William F.: Exploitation, Natural Mortality, and Survival of Smallmouth Bass and Largemouth Bass in Lake Shasta, California, 163-171
- Verrue, K. M.: see Finlayson and Verrue, 68-82
- Vigg, Steven C.: Seasonal Benthic Distribution of Adult Fish in Pyramid Lake, Nevada, 49-58
- Wilbur, Sanford R.: Estimating the Size and Trend of the California Condor Population, 1965-1978, 40-48
- Young, D. Lewis: See Salwasser, Thayer, and Young, 105-111

## SCIENTIFIC NAMES

- |   |  |
|---|--|
| <i>Acanthogobius flavimanus</i> : 239                 | <i>Cottus beldingi</i> : 97                        |
| <i>Acer macrophyllum</i> : 7                          | <i>Crangon</i> spp.: 83, 210                       |
| <i>Achaeta</i> : 117                                  | <i>Crangon franciscorum</i> : 239                  |
| <i>Acipenser medirostris</i> : 210                    | <i>Cymatogaster aggregata</i> : 239                |
| <i>Acipenser transmontanus</i> : 83-95, 210-219       | <i>Cyprinodon variegatus</i> : 217                 |
| <i>Aedes dorsalis</i> : 25                            | <i>Cyprinus carpio</i> : 178                       |
| <i>Aedes squamiger</i> : 25                           | <i>Dendraster excentricus</i> : 172, 174           |
| <i>Alnus rhombifolia</i> : 7                          | <i>Dorosoma petenense</i> : 30, 33, 62, 163        |
| <i>Alopias vulpinus</i> : 121                         | <i>Echinochloa crusgalli</i> : 233                 |
| <i>Alosa pseudoharengus</i> : 156                     | <i>Engraulis mordax</i> : 30, 33, 238-239          |
| <i>Alosa sapidissima</i> : 216                        | <i>Enhydra lutris</i> : 196-209                    |
| <i>Ambystoma macrodactylum croceum</i> : 184-186      | <i>Enteromorpha clathrata</i> : 26                 |
| <i>Ambystoma tigrinum californiense</i> : 186         | <i>Entosphenus tridentatus</i> : 186-187           |
| <i>Amphistichus rhodoterus</i> : 241                  | <i>Ephemerella</i> spp.: 100, 103                  |
| <i>Anarrhichthys ocellatus</i> : 172-177              | <i>Gambusia affinis</i> : 25, 29-33, 124, 125, 178 |
| <i>Anisogammarus confervicolus</i> : 26               | <i>Gasterosteus aculeatus</i> : 29-31, 239         |
| <i>Anas acuta</i> : 233-237                           | <i>Gila atraria</i> : 56                           |
| <i>Archoplites interruptus</i> : 49, 178-183, 189-191 | <i>Gila bicolor</i> : 49                           |
| <i>Arbutus menziesii</i> : 8                          | <i>Gila orcutti</i> : 125                          |
| <i>Atherinops affinis</i> : 29-30, 239                | <i>Gillichthys mirabilis</i> : 29-31               |
| <i>Atherinopsis californiensis</i> : 30               | <i>Glyptotendipes</i> : 117                        |
| <i>Baethis</i> spp.: 100, 103                         | <i>Gymnogyps californianus</i> : 40-48             |
| <i>Cancer anthennarius</i> : 175                      | <i>Heleochloa schoenoides</i> : 233                |
| <i>Cancer anthonyi</i> : 175                          | <i>Helminthoglypta</i> spp.: 8                     |
| <i>Cancer gracilis</i> : 172, 174                     | <i>Hemigrapsus oregonensis</i> : 239               |
| <i>Cancer productus</i> : 175                         | <i>Hesperoleucas symmetricus</i> : 241             |
| <i>Carcharodon carcharias</i> : 196-209               | <i>Hexagrammos decagrammus</i> : 188               |
| <i>Chasmistes cujus</i> : 49                          | <i>Hyalella azteca</i> : 118                       |
| <i>Chironomus</i> : 115, 117                          | <i>Hyla regilla</i> : 184                          |
| <i>Cladotanytarsus</i> : 117                          | <i>Hysteroecarpus traski</i> : 178                 |
| <i>Clevelandia ios</i> : 29-31                        | <i>Ictalurus catus</i> : 178                       |
| <i>Cornus</i> sp.: 7                                  | <i>Ictalurus furcatus</i> : 120-121                |
| <i>Corylus cornuta</i> var. <i>californica</i> : 7    | <i>Ictalurus punctatus</i> : 62, 93, 178           |
| <i>Cottus</i> sp.: 178                                | <i>Isocheles pilosus</i> : 175                     |

- Lamna ditropis*: 209  
*Lavinia exilicauda*: 178  
*Lepomis cyanellus*: 62, 125, 170, 178, 189  
*Lepomis gibbosus*: 190  
*Lepomis humilis*: 189  
*Lepomis macrochirus macrochirus*: 62, 170  
*Lepomis macrochirus purpureus*: 62-64  
*Leptochloa fascicularis*: 234  
*Leptocottus armatus*: 30, 239  
*Limnodrilus hoffmeisteri*: 115, 117  
*Lithocarpus densiflora*: 7  
*Lucania parva*: 29-31, 124-125, 239  
*Micrometrus minimus*: 239  
*Micropsectra*: 117  
*Micropterus coosae*: 125, 240-242  
*Micropterus dolomieu*: 35-39, 159, 163-172, 240  
*Micropterus punctulatus*: 62  
*Micropterus salmoides*: 35, 163-172, 178  
*Micropterus salmoides floridianus*: 133-162  
*Micropterus salmoides salmoides*: 133, 189  
*Mirounga angustirostris*: 208  
*Monadenia churchi*: 7, 8, 14  
*Monadenia fidelis*: 11, 13, 14, 15  
*Monadenia setosa*: 4-16  
*Morone saxatilis*: 210  
*Mulloidichthys dentatus*: 123  
*Mylopharodon conocephalus*: 241  
*Nitella*: 118  
*Notemigonus crysoleucas*: 178  
*Odocoileus hemionus*: 105-111  
*Odocoileus virginianus*: 106  
*Oncorhynchus kisutch*: 59-62  
*Oncorhynchus tshawytscha*: 59-62, 68-82, 216  
*Ophiodon elongatus*: 187-188  
*Orthodon microlepidotus*: 178  
*Palaemon macrodactylus*: 83, 210, 239  
*Paspalum distichum*: 233  
*Phoca vitulina*: 209  
*Phoca vitulina richardii*: 239  
*Pinus ponderosa*: 6  
*Pinus sabiniana*: 7  
*Pisidium*: 112, 115, 117  
*Polinices* spp.: 175  
*Polypodium*: 117  
*Pomoxis annularis*: 178  
*Pomoxis nigromaculatus*: 125  
*Prionace glauca*: 209  
*Procladius*: 117  
*Prosopium williamsoni*: 96-104  
*Prosopium williamsoni cismontatus*: 101  
*Pseudotsuga menziesii*: 6  
*Pseudopeneus grandisquamis*: 123-124  
*Quercus chrysolepis*: 8  
*Quercus kelloggii*: 7  
*Rana aurora*: 184  
*Randallia ornata*: 175  
*Rhinichthys cataractae*: 97  
*Richardsonius egregius*: 97  
*Salicornia virginica*: 25, 26  
*Salix* spp.: 38, 184  
*Salmo clarki*: 96  
*Salmo clarki henshawi*: 49, 97  
*Salmo gairdneri*: 17-24, 53, 62, 68, 96, 97, 217  
*Salmo gairdneri aquilarum*: 19, 22  
*Salmo gairdneri gilberti*: 20  
*Salmo gairdneri kamloops*: 19  
*Salmo gairdneri stonei*: 19  
*Salmo trutta*: 62, 97, 241  
*Salvelinus fontinalis*: 96-104  
*Scirpus* sp.: 184  
*Scirpus robustus*: 234  
*Scorpaenichthys marmoratus*: 188  
*Sphyrna lewini*: 121-123  
*Sphyrna mokarran*: 122  
*Sphyrna zygaena*: 122  
*Spirinchus thaleichthys*: 217  
*Stempellini*: 117  
*Trachurus symmetricus*: 121  
*Triakis semifasciata*: 239  
*Trichechus manatus*: 204  
*Trichocorixa reticulata*: 26  
*Trilobopsis*: 8  
*Typha* sp.: 184  
*Typha latifolia*: 234  
*Xenopus laevis*: 124

## SUBJECT

- Bass, redeye: Status of, in South Fork Stanislaus River, California, 240-242  
 Bass, largemouth: Exploitation, natural mortality, and survival in Shasta Lake, California, 163-171  
 Bass, largemouth, Florida: Impact on northern California waters and use of meristics to determine introgression and intergradation, 133-162  
 Bass, smallmouth: Mortality and survival of Tagged, in Merle Collins Reservoir, 35-39; exploitation, natural mortality, and survival in Shasta Lake, California, 163-171  
 Bluegill: Introduction of southeastern bluegill, with notes on growth of initial year class, 62-64  
 Catfish, blue: From Sacramento-San Joaquin Delta, 120-121  
 Condor, California: Estimating size and trend of the population, 1965-1978, 40-48  
 Deer, mule: Use of road-killed deer to assess reproductive potential and winter condition of Devil's Garden interstate herd, 105-111  
 Ditches, mosquito control recirculation: Effects of, on fish community of a San Francisco Bay salt marsh, 25-34  
 Eel, wolf: Diet and behavioral aspects of, on sandy bottom in Monterey Bay, 173-178  
 Fish, distribution: Seasonal benthic, in Pyramid Lake, Nevada, 49-58  
 Fishes: Checklist of, from Humboldt Bay, 220-232

- Goatfish, bigscale: Added to California's marine fauna, 123-124
- Killifish, rainwater: Established in California, 124-125
- Lakes, high elevation: Bottom fauna of, in Kings Canyon National Park, 112-119
- Lamprey, Pacific: Repeat spawning of, 186-187
- Lingcod: A diver-operated device for capturing, 187-188
- Perch, Sacramento: Decline of Lake Greenhaven population, 178-183; karotype of, 189-191
- Pintails: Food habits of, in Northern San Joaquin Valley, California, 233-237
- Salamander, Santa Cruz long-toed: A population from Monterey County, California, 184-186
- Salmon, chinook: Estimated safe levels of copper and zinc in upper Sacramento River, 68-82; a head-off method of measuring, 59-64
- Salmon, coho: A head-off method of measuring, 59-64
- Seals, harbor: Populations before and after a sewage spill in South San Francisco Bay, 238-240
- Shark, scalloped hammerhead: First record in coastal California waters, 121-123
- Shark, white: Attacks on sea otters by, 196-209
- Snail, land: Distribution, ecology, and reproductive anatomy of *Monadenia setosa* Talmadge, 4-16
- Sturgeon, white: Age and growth in Sacramento-San Joaquin Estuary, 1965-70 and 1973-76, 83-95; population trends in Sacramento-San Joaquin Estuary, 210-219
- Surfperch, redtail: a geographic record for, 242
- Trout, brook: Diets in Little Walker River, Mono County, California, 96-104
- Trout, rainbow: Ancestry of artificially propagated strains, 17-24
- Whitefish, mountain: Diets in Little Walker River, Mono County, California, 96-104

